Haverhill, MA
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Nicholas Zuber

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EDUCATION

University of Massachusetts Lowell   *Fall 2014 – Spring 2018*
Bachelor of Science in Computer Science, Minor in Mathematics

Relevant Courses:	Data Structures, Algorithms Analysis, Object Oriented Design, Functional Programming, Discrete Mathematics, Operating Systems, Computer Architecture, Probability and Statistics, Logic Design
Honors:	Dean's List, UMass Amherst Book Award for Computer Science
Activities:	Member of Modern JavaScript Society, Captain of Intramural Soccer Team
GPA:	3.36 / 4.00
Major GPA:	3.54 / 4.00

SKILLS

Programming Languages & Frameworks

Proficient in:	JavaScript, NodeJS, React/Redux, React Native, C++, HTML5, CSS3, jQuery
Experienced with:	Python, C, PHP, Java, MySQL, MIPS Assembly, Shell Script

EXPERIENCE

Robin   *May 2016 – August 2016*
Software Engineer Intern
Tech Stack: JavaScript, React Native, Redux, Git
- Helped build, maintain, and design a React Native mobile application for Android and iOS platforms for thousands of users
- Utilized knowledge of Levenshtein string distance algorithm to build custom approximate string matching module derived from the Wagner–Fischer approach with memory efficient alterations, to enhance user experience with search fields
- Carefully applied functional paradigms to take advantage of Redux and to produce testable, deterministic code

Veranda Outdoors   *May 2015 – August 2015*
Software Developer
Tech Stack: PHP, MySQL, JavaScript, HTML, CSS3, Magento, Apache4
- Lead a small team of developers to coordinate projects and work flows to increase productivity
- Quickly was able to adapt to the preexisting legacy software within the company as well as seamlessly introducing modern software into the ecommerce platform
- Created practical and user friendly whole sale ordering platform for hundreds of important customers

University of Massachusetts   *February 2015 – June 2015*
Web Designer/Software Developer
Tech Stack: JavaScript, HTML5, CSS3, jQuery
- Combined knowledge of data structures and divide and conquer algorithmic techniques to create an optimized class scheduling application that is aimed to be used by hundreds of staff members
- Designed a modern and clean user interface for a simple and easy-to-use experience, while still maintaining powerful functionality
- Communicated and worked together proficiently with staff to build and design the ideal web application to fit their needs and help automate the class scheduling process

PROJECTS

Needle *(Library)*   *September 2015 – Present*
Tech Stack: JavaScript, NodeJS
- Worked intimately with a wide variety of commonly used data structures (linked lists, hash maps, k-ary trees, etc.), as well as more esoteric, but useful, data structures (rolling hash, bit array, etc.)
- Produced a series of benchmarks to analyze the performance of individual components throughout the library and various flavors of unit testing for quality assurance
- Optimized software performance, as well as adding both client and server side support to produce a flexible, lightweight product

MarkUp *(WebApp)*   *August 2016 – Present*
Tech Stack: JavaScript, React, Redux, NodeJS
- Developed and designed an online markdown platform that supports Kramdown and MathJax, allowing for simple and easy text editing for rich markdown applications
- Created an intuitive and modern user interface that abides by an internal style guide with carefully coordinated color schemes and strategically placed interactive components
- Implemented a deterministic and stateful application that predictably adheres to the functional paradigm using Redux

Material Paper *(React Module)*   *August 2016 – Present*
Tech Stack: JavaScript, React, NodeJS
- Built a malleable, versatile, and responsive component that is designed to seamlessly integrate into any React application
- Designed the ability to create easily reusable settings and customizations so component variations can be painlessly distributed throughout an application